



# ENVIROTEK LABORATORIES, INC.

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EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

## PROPUR PROMAX FULL SPECTRUM FILTER PARASITES TEST REPORT

Report # 17-145-Parasites (Propur ProMax Full Spectrum Filter)

Report Date: 05/29/2017

Customer Name: Propur

### EXECUTIVE SUMMARY

One hundred gallons of tap water was spiked with parasites to have a final concentration of  $10^4$  Units/L; the spiked tap water was filtered through the filter element and tested; the parasites in the tap water were reduced by more than 99.999 % after 100 gallons.

### INTRODUCTION

One hundred gallons of tap water was spiked with parasites to have a final concentration of  $10^4$  Units/L; the spiked tap water was filtered through the filter element and tested following the Standard Methods of Analysis of Water 21<sup>st</sup> Edition, the parasites in the tap water were reduced by more than 99.999 % after 100 gallons.

### REAGENTS, MATERIALS, AND LAB EQUIPMENT

Copepods 5280+, Algae Barn, Catalog #5280, Lot # 1705659.

Microspora amoena, Carolina Biological Supply Company, Catalog #152350.

Cyanobacteria Set, Carolina Biological Supply Company, Catalog #151515.

Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.

Propur ProMax Full Spectrum Filter.

### PROCEDURE

One hundred gallons of tap water was spiked with parasites in a tank and mixed well; this solution was tested and adjusted to have a final concentration of  $10^4$  Units/L; the influent water properties are summarized in Table 1 below. The solution was filtered through the In-line Filter using a 0.5 GPM electric pump at 20 minutes on/20 minutes off cycle, tested every 20 gallons following the Standard Methods of Analysis of Water 21<sup>st</sup> Edition. The results are summarized in Tables 2, and 3 below.

### RESULTS

**Table 1**  
**Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.25	7.00 to 8.00
Temperature	20.0 °C	20 ± 2.5°C
TDS	475 mg/L	200 to 500 mg/L
Turbidity	0.95 NTU	<1 Nephelometric Turbidity Units

**Table 2**  
**Copepods Parasites Test Results**

Parasite Tested	Influent Water Concentration	NSF % Reduction requirement	% Reduction At 100 gallons
Tigriopus californicus	$10^4$ /L	≥99.999%	99.999
Tisbe biminiensis	$10^4$ /L	≥99.999%	99.999
Apocyclops panamensis	$10^4$ /L	≥99.999%	99.999

**Table 3**  
**Blue-Green Algae Test Results**

Accumulated volume	Influent Water Concentration	NSF % Reduction requirement	% Reduction At 100 gallons
Microspora amoena	$10^7$ /L	≥99.999%	99.999
Anabaena	$10^4$ /L	≥99.999%	99.999
Eucapsis	$10^7$ /L	≥99.999%	99.999
Fischerella	$10^4$ /L	≥99.999%	99.999
Spirulina	$10^4$ /L	≥99.999%	99.999
Merismopedia	$10^7$ /L	≥99.999%	99.999
Toltpothrix	$10^4$ /L	≥99.999%	99.999



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### CONCLUSION:

The Propur ProMax Full Spectrum Filter reduces the Parasites concentration by more than 99.999% for up to 100 gallons.

### CERTIFICATION OF RESULTS:

I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2 and the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards.

**Disclaimer:** The test results are only related to the filter sample tested.

*Jaime A. Young*

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Lab Director

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SYSTEMS

The reduction of contaminants or other substances that may be present in your water supply may vary depending on its content. The contaminants or other substances reduced are not necessarily present in all users water. Some contaminants may be more easily filtered than others. Percentage of reduction will vary over the life of the filter based on the level of contaminant(s) found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Actual performance may vary. Do not use with water that is microbiologically unsafe or of unknown water quality with adequate disinfection.